QC ABSTRACT

NAME OF WORK: Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1

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5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Drain Bottom Slab Concrete (M20)	Compressive Strength(7days and 28days)	2 set /6-15 cum	15.61	4	4
9	Drain Side Wall Concrete (M20)	Compressive Strength(7days and 28days)	3 set /16-30 cum	16.67	6	6
10	RMC (M20)	Compressive Strength(7days and 28days)	5 set /51-100 cum	75.74	10	10

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2020-05-05-01** **Date: 30-01-20**

Project Name : Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/134/2019-20

Date of Receipt : 27-01-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 . 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11) 1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 28-01-20

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	_
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	_
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	180 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2020-05-05-01** **Date: 25-02-20**

Project Name : Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-

Customer's Reference : BBMP/EE/BTP/WO/134/2019-20

Date of Receipt : 27-01-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 28-01-20

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-05-05-01** **Date: 30-01-20**
Project Name	:	Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/134/2019-20
Date of Receipt	:	27-01-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-01-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7254	7468	49.8	50.2	30-70
4	10 mm	4442	11910	79.4	20.6	10-35
5	4.75 mm	2685	14595	97.3	2.7	0-5
6	Pan	405	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-05-05-01** **Date: 30-01-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.49	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.17	_

Raghu

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-05-05-01** **Date: 30-01-20**
Project Name	:	Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/134/2019-20
Date of Receipt	:	27-01-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-01-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	237	237	4.7	95.3	90-100
3	10 mm	2544	2781	55.6	44.4	25-55
4	4.75 mm	2107	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-05-05-01** **Date: 30-01-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.57	_
6	Water Absorption(%)	0.19	_
7	Aggregate crushing Value(%)	25.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-05-05-01 **Date: 30-01-20**

Project Name : Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/134/2019-20

Date of Receipt : 27-01-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 27-01-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	26	26	2.6	97.4	90-100	90-100	90-100	95-100
3	2.36 mm	51	77	7.7	92.3	60-95	75-100	85-100	95-100
4	1.18 mm	238	315	31.5	68.5	30-70	55-90	75-100	90-100
5	600 micron	201	516	51.6	48.4	15-34	35-59	60-79	80-100
6	300 micron	204	720	72.0	28.0	5-20	8-30	12-40	15-50
7	150 micron	192	912	91.2	8.8	0-10	0-10	0-10	0-15
8	Pan	88	1000	100.0	0.0	—	—	—	—

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-05-05-01** **Date: 30-01-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.51	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	6.7	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2020-05-05-01** **Date: 16-02-20**
Project Name	:	Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/134/2019-20
Date of Receipt	:	13-02-20
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) 2005(RA 2010) Concrete Masonry Specification Part 1 Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	13-02-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	404	202	198	16158	33.179	2053.4	2041.7	Not less than 1800Kg/m^3
2	401	198	200	15880	32.338	2036.4		
3	401	200	202	16200	32.972	2035.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2020-05-05-01** **Date: 16-02-20**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	200	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	201	202	
3	400	202	201	
4	404	201	200	
5	404	200	201	
6	403	203	201	
7	400	202	202	
8	403	200	202	
9	404	200	202	
10	399	201	199	
11	403	199	201	
12	399	201	201	
13	399	199	202	
14	402	202	200	
15	401	202	201	
16	400	203	202	
17	402	202	203	
18	403	201	199	
19	402	203	200	
20	401	203	201	
Average of 20	**402**	**201**	**201**	

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Lab ID : **CP-2020-05-05-01** **Date: 16-02-20**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	200	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	201	202	
3	400	202	201	
4	404	201	200	
5	404	200	201	
6	403	203	201	
7	400	202	202	
8	403	200	202	
9	404	200	202	
10	399	201	199	
11	403	199	201	
12	399	201	201	
13	399	199	202	
14	402	202	200	
15	401	202	201	
16	400	203	202	
17	402	202	203	
18	403	201	199	
19	402	203	200	
20	401	203	201	
Average of 20	**402**	**201**	**201**	

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Lab ID : **CP-2020-05-05-01** **Date: 16-02-20**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	200	79820	365.9	4.6	4.6
2	402	201	80759	365.1	4.5	
3	400	202	80840	360.1	4.5	
4	404	201	81171	388.3	4.8	
5	404	200	80700	376.5	4.7	
6	403	203	81624	368.5	4.5	
7	400	202	80827	359.4	4.4	
8	403	200	80459	375.9	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Quality Manager

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TEST RESULTS OF STEEL

Lab ID : **CP-2020-05-05-01** **Date: 01-02-20**

Project Name : Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-

Customer's Reference : BBMP/EE/BTP/WO/134/2019-20

Date of Receipt : 31-01-20

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 31-01-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2020-05-05-01**

Project Name : Improvements To CC Roads and Drains at Agrahara Village in Ward No.05. **Date: 12-02-20**

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/134/2019-20

Date of Receipt : 08-02-20

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 08/02/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-05-01** **Date: 16/11/2019**

Project Name : Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/134/2019-20

Date of Receipt : 07-02-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	05/02/2020	12/02/2020	151.97 X 150.71 X 151.40	22902	8.624	428.5	18.7	18.8
2	Drain Bottom Slab Concrete	M20	05/02/2020	12/02/2020	149.59 X 150.59 X 149.39	22527	8.078	426.8	18.9	
3	Drain Bottom Slab Concrete	M20	05/02/2020	12/02/2020	149.02 X 151.91 X 150.54	22638	8.995	427.4	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-05-01** **Date: 04/03/2020**

Project Name : Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/134/2019-20

Date of Receipt : 07-02-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	05/02/2020	04/03/2020	150.22 X 150.00 X 151.13	22533	8.552	521.2	23.1	23.3
2	Drain Bottom Slab Concrete	M20	05/02/2020	04/03/2020	151.44 X 149.77 X 150.74	22681	8.882	517.4	22.8	
3	Drain Bottom Slab Concrete	M20	05/02/2020	04/03/2020	150.79 X 149.84 X 149.80	22594	8.732	542.1	24.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-05-01** **Date: 16/11/2019**

Project Name : Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/134/2019-20

Date of Receipt : 07-02-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	05/02/2020	12/02/2020	150.90 X 150.85 X 150.45	22764	8.624	419.9	18.4	18.5
2	Drain Bottom Slab Concrete	M20	05/02/2020	12/02/2020	151.72 X 149.26 X 151.27	22645	8.078	427.2	18.9	
3	Drain Bottom Slab Concrete	M20	05/02/2020	12/02/2020	149.22 X 149.94 X 151.56	22374	8.995	407.3	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-05-01** **Date: 04/03/2020**

Project Name : Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/134/2019-20

Date of Receipt : 07-02-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	05/02/2020	04/03/2020	151.46 X 151.30 X 150.48	22915	**8.552**	538.2	23.5	23.0
2	Drain Bottom Slab Concrete	M20	05/02/2020	04/03/2020	150.27 X 149.04 X 149.75	22396	**8.882**	494.9	22.1	
3	Drain Bottom Slab Concrete	M20	05/02/2020	04/03/2020	150.52 X 149.49 X 151.05	22502	**8.732**	527.1	23.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-05-01** **Date: 17/02/2020**

Project Name : Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/134/2019-20

Date of Receipt : 12-02-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	10/02/2020	17/02/2020	149.91 X 150.85 X 150.69	22614	8.624	417.4	18.5	18.5
2	Drain Side Wall Concrete	M20	10/02/2020	17/02/2020	150.83 X 149.77 X 151.09	22590	8.078	425.5	18.8	
3	Drain Side Wall Concrete	M20	10/02/2020	17/02/2020	151.30 X 150.78 X 150.49	22814	8.995	416.8	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-05-01** **Date: 09/03/2020**

Project Name : Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/134/2019-20

Date of Receipt : 12-02-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	10/02/2020	09/03/2020	150.51 X 150.25 X 150.21	22615	8.552	527.8	23.3	23.2
2	Drain Side Wall Concrete	M20	10/02/2020	09/03/2020	149.73 X 151.68 X 151.07	22711	8.882	517.4	22.8	
3	Drain Side Wall Concrete	M20	10/02/2020	09/03/2020	151.92 X 149.95 X 149.78	22780	8.732	537.7	23.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-05-01**

Date: 17/02/2020

Project Name : Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/134/2019-20

Date of Receipt : 12-02-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	10/02/2020	17/02/2020	150.35 X 149.08 X 150.43	22413	8.624	425.3	19.0	18.7
2	Drain Side Wall Concrete	M20	10/02/2020	17/02/2020	151.12 X 151.48 X 150.99	22892	8.078	416.9	18.2	
3	Drain Side Wall Concrete	M20	10/02/2020	17/02/2020	150.50 X 150.14 X 151.27	22597	8.995	426.3	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-05-01** **Date: 09/03/2020**

Project Name : Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/134/2019-20

Date of Receipt : 12-02-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	10/02/2020	09/03/2020	150.38 X 151.72 X 149.07	22817	**8.552**	545.0	23.9	23.1
2	Drain Side Wall Concrete	M20	10/02/2020	09/03/2020	151.36 X 150 25 X 151.33	22742	**8.882**	508.2	22.3	
3	Drain Side Wall Concrete	M20	10/02/2020	09/03/2020	150.30 X 151.60 X 150.05	22785	**8.732**	526.3	23.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-05-01**

Date: 17/02/2020

Project Name : Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/134/2019-20

Date of Receipt : 12-02-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	10/02/2020	17/02/2020	151.61 X 150.14 X 149.38	22762	8.624	422.7	18.6	18.5
2	Drain Side Wall Concrete	M20	10/02/2020	17/02/2020	151.31 X 150.93 X 151.99	22837	8.078	417.0	18.3	
3	Drain Side Wall Concrete	M20	10/02/2020	17/02/2020	151.38 X 149.50 X 150.31	22632	8.995	420.0	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-05-01** **Date: 09/03/2020**

Project Name : Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/134/2019-20

Date of Receipt : 12-02-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	10/02/2020	09/03/2020	149.41 X 150.63 X 150.32	22506	8.552	528.4	23.5	23.2
2	Drain Side Wall Concrete	M20	10/02/2020	09/03/2020	150.33 X 149.83 X 150.43	22525	8.882	506.9	22.5	
3	Drain Side Wall Concrete	M20	10/02/2020	09/03/2020	150.47 X 150.02 X 150.98	22573	8.732	530.0	23.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-05-01** **Date: 24/02/2020**

Project Name : Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/134/2019-20

Date of Receipt : 19-02-20

Customer ID : RMC, Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC, Cement Concrete Pavement	M20	17/02/2020	24/02/2020	150.68 X 149.26 X 150.47	22491	8.624	422.9	18.8	18.5
2	RMC, Cement Concrete Pavement	M20	17/02/2020	24/02/2020	151.42 X 149.10 X 151.35	22577	8.078	419.4	18.6	
3	RMC, Cement Concrete Pavement	M20	17/02/2020	24/02/2020	149.28 X 149.46 X 151.41	22311	8.995	407.4	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-05-01** **Date: 16/03/2020**

Project Name : Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagaru, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/134/2019-20

Date of Receipt : 19-02-20

Customer ID : RMC, Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC, Cement Concrete Pavement	M20	17/02/2020	16/03/2020	151.62 X 151.55 X 151.74	22978	**8.552**	535.0	23.3	23.2
2	RMC, Cement Concrete Pavement	M20	17/02/2020	16/03/2020	149.81 X 151.82 X 149.54	22744	**8.882**	512.5	22.5	
3	RMC, Cement Concrete Pavement	M20	17/02/2020	16/03/2020	149.62 X 149.63 X 151.95	22388	**8.732**	531.5	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-05-01**

Project Name : **Date: 24/02/2020**

Agency : Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.

Customer's Reference : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Date of Receipt : BBMP/EE/BTP/WO/134/2019-20

Customer ID : 19-02-20

Sample Type /Size : RMC, Cement Concrete Pavement

Sample grade/Age : 150X150X150 mm

Reference to BIS codes : M20 / 7 Days Compressive Strength

Date of test : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 24/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	RMC, Cement Concrete Pavement	M20	17/02/2020	24/02/2020	151.23 X 151.34 X 149.17	22887	8.624	413.0	18.0	18.1
2	RMC, Cement Concrete Pavement	M20	17/02/2020	24/02/2020	151.99 X 151.13 X 150.52	22970	8.078	414.8	18.1	
3	RMC, Cement Concrete Pavement	M20	17/02/2020	24/02/2020	149.19 X 150.11 X 149.48	22394	8.995	406.0	18.1	

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-05-05-01 **Date: 16/03/2020**

Project Name : Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/134/2019-20

Date of Receipt : 19-02-20

Customer ID : RMC, Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC, Cement Concrete Pavement	M20	17/02/2020	16/03/2020	149.09 X 150.81 X 151.41	22485	8.552	526.9	23.4	23.3
2	RMC, Cement Concrete Pavement	M20	17/02/2020	16/03/2020	150.19 X 151.57 X 151.41	22763	8.882	517.1	22.7	
3	RMC, Cement Concrete Pavement	M20	17/02/2020	16/03/2020	150.88 X 151.47 X 151.38	22854	8.732	539.9	23.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/02/2020

Lab ID	:	**CP-2020-05-05-01**
Project Name	:	Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/134/2019-20
Date of Receipt	:	19-02-20
Customer ID	:	RMC, Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC, Cement Concrete Pavement	M20	17/02/2020	24/02/2020	151.61 X 149.15 X 149.10	22613	8.624	421.2	18.6	18.5
2	RMC, Cement Concrete Pavement	M20	17/02/2020	24/02/2020	151.58 X 149.01 X 149.69	22587	8.078	412.0	18.2	
3	RMC, Cement Concrete Pavement	M20	17/02/2020	24/02/2020	151.98 X 150.47 X 150.38	22870	8.995	428.7	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-05-01** **Date: 16/03/2020**

Project Name : Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/134/2019-20

Date of Receipt : 19-02-20

Customer ID : RMC, Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC, Cement Concrete Pavement	M20	17/02/2020	16/03/2020	149.80 X 150.72 X 150.03	22577	8.552	522.5	23.1	23.0
2	RMC, Cement Concrete Pavement	M20	17/02/2020	16/03/2020	150.48 X 151.66 X 149.20	22821	8.882	509.1	22.3	
3	RMC, Cement Concrete Pavement	M20	17/02/2020	16/03/2020	151.01 X 151.67 X 150.57	22904	8.732	540.2	23.6	

CIVIL Pro Sig Date BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-05-01** **Date: 24/02/2020**

Project Name : Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/134/2019-20

Date of Receipt : 19-02-20

Customer ID : RMC, Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC, Cement Concrete Pavement	M20	17/02/2020	24/02/2020	150.58 X 149.16 X 151.35	22461	8.624	421.6	18.8	18.6
2	RMC, Cement Concrete Pavement	M20	17/02/2020	24/02/2020	151.78 X 149.12 X 150.97	22633	8.078	414.0	18.3	
3	RMC, Cement Concrete Pavement	M20	17/02/2020	24/02/2020	151.73 X 149.30 X 149.35	22653	8.995	427.3	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-05-01** **Date: 16/03/2020**

Project Name : Improvements To CC Roads and Drains at Agrahara Village in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/134/2019-20

Date of Receipt : 19-02-20

Customer ID : RMC, Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC, Cement Concrete Pavement	M20	17/02/2020	16/03/2020	149.57 X 151.85 X 151.79	22712	**8.552**	536.4	23.6	23.1
2	RMC, Cement Concrete Pavement	M20	17/02/2020	16/03/2020	151.57 X 150.29 X 149.71	22779	**8.882**	509.8	22.4	
3	RMC, Cement Concrete Pavement	M20	17/02/2020	16/03/2020	151.32 X 149.78 X 151.34	22664	**8.732**	526.3	23.2	

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Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC, Cement Concrete Pavement	M20	17/02/2020	24/02/2020	150.55 X 151.38 X 151.98	22791	8.624	414.7	18.2	18.3
2	RMC, Cement Concrete Pavement	M20	17/02/2020	24/02/2020	149.06 X 149.30 X 149.89	22256	8.078	407.2	18.3	
3	RMC, Cement Concrete Pavement	M20	17/02/2020	24/02/2020	151.41 X 149.47 X 150.58	22632	8.995	413.3	18.3	

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Customer's Reference : BBMP/EE/BTP/WO/134/2019-20

Date of Receipt : 19-02-20

Customer ID : RMC, Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC, Cement Concrete Pavement	M20	17/02/2020	24/02/2020	150.55 X 151.38 X 151.98	22791	8.624	414.7	18.2	18.3
2	RMC, Cement Concrete Pavement	M20	17/02/2020	24/02/2020	149.06 X 149.30 X 149.89	22256	8.078	407.2	18.3	
3	RMC, Cement Concrete Pavement	M20	17/02/2020	24/02/2020	151.41 X 149.47 X 150.58	22632	8.995	413.3	18.3	

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Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC, Cement Concrete Pavement	M20	17/02/2020	16/03/2020	150.19 X 150.32 X 150.07	22576	8.552	533.4	23.6	23.3
2	RMC, Cement Concrete Pavement	M20	17/02/2020	16/03/2020	151.68 X 151.98 X 151.66	23052	8.882	527.1	22.9	
3	RMC, Cement Concrete Pavement	M20	17/02/2020	16/03/2020	149.16 X 150.14 X 149.66	22395	8.732	522.8	23.3	

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